

Mologen Pain combating agent.ST25
SEQUENCE LISTING

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<120> Local Pain-Combating Agent

<130> NHL-NP-43

<150> DE 101 09 092.7

<151> 2001-02-24

<150> PCT/DE02/00583

<151> 2002-02-19

<160> 10

<170> PatentIn version 3.1

<210> 1

<211> 535

<212> DNA

<213> synthetic sequence

<220>

<221> Intron

<222> (446)..(532)

<223> β -endorphin cDNA sequence

<220>

<221> Intron

<222> (446)..(532)

<223> β -endorphin cDNA sequence

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gacgcccgtg tttccaggca acggagatga acagcccttg actgaaaatc cccggaagta	300
cgatcatgggt cacttccgct gggaccgctt cggcccgaga aacagcagca gtgctggcgg	360
ctcagcgcag aggcgtgcgg aggaagagac ggcgggggga gatggccgtc cggagccaag	420
tccacgggag ggcaagcgct acggcggtt catgacctcc gagaagagcc agacgccct	480
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<210> 2

<211> 663

<212> DNA

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<213> synthetic sequence

<220>

<221> Intron

<222> (376)..(462)

<223> β -endorphin cDNA sequence

<220>

<221> Intron

<222> (475)..(562)

<223> second β -endorphin cDNA sequence

<220>

<221> Intron

<222> (574)..(660)

<223> third β -endorphin cDNA sequence

<400> 2

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atgacctccg agaagagcca gacgcccctg gtgacgctct tcaagaacgc catcatcaag      540
aacgtgcaca agaagggcc aagcgctac ggcgggttca tgacctccga gaagagccag      600
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<210> 3

<211> 708

<212> DNA

<213> Rat

<400> 3

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cacttccgct gggaccgctt cggcccgaga aacagcagca gtgctggcgg ctacgcgcag      300
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ggcaagcgct cctactccat ggagcacttc cgctggggca agccggtggg caagaagcgg 420
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gagttcaaga gggagctgga aggcgagcag cctgatggct tggagcacgt cctggagccg 540
gataccgaga aggccgacgg gccctatcgg gtggagcact tccgctgggg caacccgccc 600
aaggacaagc gctacggcgg cttcatgacc tccgagaaga gccagacgcc cctggtgacg 660
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<210> 4
<211> 615
<212> DNA
<213> synthetic sequence

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<400> 4
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agcaacctgc tggcttgcac ccgggcctgc agactcgacc tctcggcgga gacgcccgtg 180
tttccaggca acggagatga acagcccttg actgaaaatc cccggaagta cgtcatgggt 240
cacttccgct gggaccgctt cggcccgaga aacagcagca gtgctggcgg ctcagcgag 300
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<210> 5
<211> 12
<212> PRT
<213> Simian virus 40

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<400> 5

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1          5          10

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<210> 6
<211> 1195
<212> DNA
<213> Rattus norvegicus

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<220>
<221> misc_feature
<223> CRF cDNA sequence

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<400> 6
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gaacaacagt gcgggctcac ctgccaaagg aggagaagag agcgcccccta aacatgcggc      180
tgcggctgct ggtgtccgcg ggcattgctgc tgggtggctct gtcgccctgt ctgccttgca      240
gggccctgct gagcagggga tccgtctctg gagcgccgcg ggccccgcag ccgttgaatt      300
tcttgcaacc ggagcagccc cagcaacctc agccgattct gatccgcatt ggtgaagaat      360
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cgccccctcac cgcgggctcg ggcagccgcc cctcgcacga ccaggctgcg gctaactttt      480
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tggcggaacg cggcgccgag gatgccctcg gtggccacca gggggcgctg gagagggaga      600
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aattagcatg cacaaagtgt gtttctttgt agtaacaaaa cagcgttatt tgtattgttc      960
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cacagtgtaa gagaattcat tcttgagggg tggctaggac aaaatgtgta agctctttga     1140
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<210> 7
<211> 564
<212> DNA
<213> Rattus norvegicus

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<220>
<221> Intron
<222> (376)..(462)
<223>  $\beta$ -endorphin cDNA sequence

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<220>
<221> Intron
<222> (376)..(462)
<223> first  $\beta$ -endorphin cDNA sequence

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<220>
<221> Intron
<222> (475)..(562)

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<223> second β -endorphin cDNA sequence

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agcaacctgc tggcttgcac ccgggcctgc agactcgacc tctcggcgga gacgcccgtg      180
tttcaggca acggagatga acagcccttg actgaaaatc cccggaagta cgtcatgggt      240
cacttccgct gggaccgctt cggcccgaga aacagcagca gtgctggcgg ctcagcgtag      300
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ggcaagcgtc acggcggtt catgacctcc gagaagagcc agacggccct ggtgacgtc      420
ttcaagaacg ccatcatcaa gaactgcac aagaagggcc agaagcgcta cggcggttc      480
atgacctccg agaagagcca gacggccctg gtgacgtctt tcaagaacgc catcatcaag      540
aacgtgcaca agaaggcca gtga                                          564

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<210> 8
<211> 936
<212> DNA
<213> Homo sapiens

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<220>
<221> Intron
<222> (847)..(933)
<223>  $\beta$ -endorphin cDNA sequence

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<400> 8
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agcaacctgc tgaaggggat gggacaaaag aggcggtggc aagatcttag atgccacga      180
gtgccaagaa agcaggtggg cagacctgcc tgtagggagg cctcgacgct tgacacgccc      240
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aagagggagc tgactggcca gcgactccgg gagggagatg gccccgacgg ccctgccgat      720
gacggcgtag gggcccaggc cgacctggag cacagcctgc tgggtggcggc cgagaagaag      780

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gccatcatca agaacgccta caagaagggc gagtga 936

<210> 9
<211> 87
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> 3'-end sequence

<400> 9
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atcaagaacg tgcacaagaa gggccag 87

<210> 10
<211> 87
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> 3'-end sequence

<400> 10
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atcaagaacg cctacaagaa gggcgag 87